

ABSTRACT

A central control station carries out allocations of transmission rights according to a rule that a value obtained by subtracting (i) a value of a broken line (11) from (ii) a value of a straight line (10) is always limited according to a certain constant value (TXOP bound) smaller than C·T delay, where the broken line (11) indicates a sum of transmission granting time periods allocated from a certain time point t_0 by "an actual transmission right allocation", the straight line (10) indicates a sum of transmission right granted time periods allocated according to "a reference transmission right allocation obtained by the average data rate or the like of a communication station", and C·T delay is an average sum of transmission right granted time periods allocated to the tolerable transmission delay time according to the reference transmission right allocation. In a communication network, a communication path quality required by a transmission station to a communication path can be realized while maintaining flexibility of the scheduling carried out by the central control station.